

## Product datasheet for **RG211610**

### **ARHGAP17 (NM\_018054) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	ARHGAP17 (NM_018054) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ARHGAP17
Synonyms:	MST066; MST110; MSTP038; MSTP066; MSTP110; NADRIN; PP367; PP4534; RICH-1; RICH1; WBP15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG211610 representing NM\_018054  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGAAGCAGTTCAACCCGATGAAGCAGCTGGCTAACCCAGACCGTGGCAGAGCTGAGAAAACAGAAG  
 TCCTTAGTGAAGATCTATTACAGATTGAGAGACGCCTGGACACGGTGCAGTCAATATGCCACCATTCCCA  
 TAAGCGCTTGGTGGCATGTTCCAGGGCCAGCATGGCACCGATGCCGAGAGGAGACACAAAAAAGTGCCT  
 CTGACAGCTCTTGCTCAAAATATGCAAGAAGCATCGACTCAGCTGGAAGACTCTCTCCTGGGGAAGATGC  
 TGGAGACGTGTGGAGATGCTGAGAATCAGCTGGCTCTCGAGCTCTCCAGCACGAAGTCTTTGTTGAGAA  
 GGAGATCGTGGACCCCTGTACGGCATAGCTGAGGTGGAGATTCCCAACATCCAGAAGCAGAGGAAGCAG  
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 CCAACTTTCAGGGGCTTCCATCAAAAATAGATACTCTAAAGGAAGAGATGGATGAAGCTGGAATAAAGT  
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 TCCCCGAAATGCGAGCCCATCAAGATAAGTGGGCGGAAAAACCAGCCTTTGGGACTCCCCTAGAAGAACA  
 CCTGAAGAGGAGCGGGCGGAGATTGCGCTGCCATTGAAGCCTGTGTCATGCTGCTTCTGGAGACAGGC  
 ATGAAGGAGGAGGGCCTTTCCGAATTGGGGCTGGGGCTCCAAGTTAAAGAAGCTGAAAGCTGCTTTGG  
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 TTTACGGGAATTGCTGAACCTTTGATGACTTTAATCTGTATGAAGAATGGACACAAGTTGCAAGTGTG  
 CAGGATCAAGACAAAAAAGCTTCAAGACTGTGGAGAATGTGAGAAAGTGGCACCACAAAATTTTGTTA  
 ACTTTAGATATTTGATCAAGTTCTTGCAAAGCTTGGTCTCAGACCAGCGATGTGAATAAAATGACTCCCAG  
 CAACATTGCGATTGTGTTAGGCCCTAAGTTGTTATGGGCCAGAAATGAAGGAACACTTGCTGAAATGGCA  
 GCAGCCACATCCGTCCATGTGGTTGCAGTGATTGAACCCATCATTAGCATGCCGACTGGTTCTTCCCTG  
 AAGAGGTGGAATTTAATGTATCAGAAGCATTGTACCTCTCACCACCCGAGTTCTAATCACTCATTCCA  
 CACTGGAAACGACTCTGACTCGGGGACCCTGGAGAGGAAGCGGCCTGCTAGCATGGCGGTGATGGAAGGA  
 GACTTGGTGAAGAAGGAAAGTCTCCCAAACCGAAGGACCCTGTATCTGCAGCTGTGCCAGCACCAGGGA  
 GAAACAACAGTCAGATAGCATCTGGCCAAAATCAGCCCCAGGCAGCTGCTGGCTCCCACCAGCTCTCCAT  
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 TCCAGGCCAGCCCTCCGCCCCCTCCAGCTCTCAGCACCCCGGAGGTACTCCAGCAGCTTGTCTCCAATC  
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 GCCAGGGCCCTCCAACCCCATGGCATTGCCAGTGAGCATGGACTTGAGCAGCCATCTCACACCCCTCC  
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 CTGGCAGGGGTAACCTGAAACTGCACAGCCACATGCTGGAACCTTACCGAGACCGAGACCAGTACCAA  
 AGCCAAGGAACCGGCCAGCGTGCCCCACCCCAACCTCCTGGTGTCCACTCAGCTGGGACAGCAG  
 CCTCACCAACACAGCACCAACAGCTTCCAAGATAGTAACAGACTCCAATTCAGGGTTTCAGAACCAGAT  
 CGCAGCATCTTTCTGAAATGCACTCAGACTCAGCCAGCAAAGACGTGCCTGGCCGATCCTGCTGGATA  
 TAGACAATGATACCGAGAGCACTGCCCTG

**ACCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG211610 representing NM\_018054  
 Red=Cloning site Green=Tags(s)

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MKKQFNRMKQLANQTVGRAEKTEVLSDLLQIERRLDTVRSICHHSHKRLVACFQGQHGTAERRHKKLP
LTALAQNMQEASTQLEDSELLGKMLETCGDAENQLALELSQHEVFVEKEIVDPLYGIAEVEIPNIQQRKQ
LARLVLDWDSVRARWNQAHKSSGTNFGQLPSKIDTLKEEMDEAGNKVEQCKDQLAADMYNFMAKEGEYVK
FFVTLLLEAQADYHRKALAVLEKTLPEMRAHQDKWAEKPAFGTPLEEHLKRSGREIALPIEACVMLLLETG
MKEEGLFRIGAGASKLKKLKAALDCSTSHLDEFYSDPHAVAGALKSYLRELPEPLMTFNL YEEWTQVASV
QDQDKKLQDLWRTCQKLPQNFVNFRLIKFLAKLAQTSVNMKTPSNIAIVLGPPLLWARNEGTLAEMA
AATSVHVAVIEPIIQHADWFFPEEVEFNVSEAFVPLTTPSSNHSFHTGNDSDSGTLERKRPASMAVMEG
DLVKKESPPKPKDPVSAAVPAPGRNNSQIASGQNQPQAAAGSHQLSMGQPHNAAGPSPHTLRRAVKKPAP
APPKPGNPPPGHPGGQSSSGTSQHPPSLSPKPPTRSPSPPTQHTGQPPGQPSAPSQLSAPRRYSSLSPI
QAPNHPPPQPPTQATPLMHTKPNSQGPPNPMALPSEHGLEQPSHTPPQTPTPPSTPPLGKQNPSPAPQT
LAGGNPETAQPHAGTLRPRPVKPRNRPSVPPPPQPPGVHSAGDSSLTNTAPTASKIVTDSNSRVSEPH
RSIFPEMHSDSASKDVPGRILLIDNDTESTAL
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_018054

**ORF Size:** 2409 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_018054.6](#)

**RefSeq Size:** 3246 bp

**RefSeq ORF:** 2412 bp

**Locus ID:** 55114

**UniProt ID:** [Q68EM7](#)

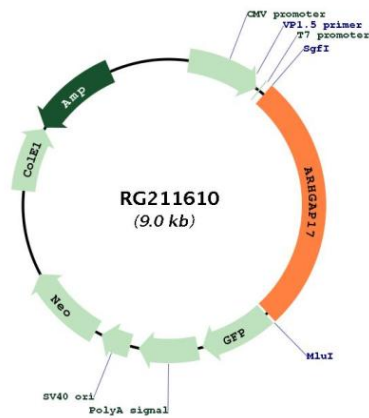
**Cytogenetics:** 16p12.1

**Domains:** RhoGAP, BAR

**Protein Families:** Druggable Genome

**Gene Summary:** RICH1 is a GTPase-activating protein (GAP). GAPs stimulate the intrinsic GTP hydrolysis of small G proteins, such as RHOA (MIM 165390), RAC1 (MIM 602048), and CDC42 (MIM 116952). [supplied by OMIM, Apr 2004]

**Product images:**



Circular map for RG211610